SENIOR NETWORK SPECIALIST

Characteristics of Work

The positions in this job family are responsible for the design, enhancement, implementation, and operation of statewide, voice, video, and data communications networks (LAN, WANs, telephone systems). This includes the physical design of new and enhanced communications platforms and the ongoing monitoring and maintenance of the operating systems.

Senior Network Specialist is the specialist level where incumbents use their in-depth expertise in statewide communications network design and operations to do the most complex trouble-shooting of problems and manage complex system operations. They are fully versed in all aspects of voice, video, or data systems operations maintenance and design are responsible for designing complex systems to ensure that agencies are able to fulfill their functions in a timely manner. This include interfacing with other networks, peripherals, and computing environments and voice, video, or data connectivity. Incumbents at this level are subject matter experts providing technical guidance and leadership to less senior staff.

Examples of Work

Examples of work performed in this classification include, but are not limited to, the following:

Designs, tests, and implements statewide voice and data systems to meet the needs of clients and prepares specifications and plans for implementation of new or enhanced networks.

Designs, configures, and implements network hardware, software, ancillary services, and network communication gateways to other computing environments.

Monitors network performance and makes modifications to enhance operating efficiency. Develops networks and criteria for network monitoring software. Develops methods and criteria for network traffic analysis, and data collection and analysis.

Manages network operations and identifies and resolve network (and component) operating problems with vendors and internal staff.

Provides supportive expertise to other technical staff members in installing and configuring network equipment and in resolving user or system problems.

Performs related or similar duties as required or assigned.

Essential Functions

Additional essential functions may be identified and included by the hiring agency. These essential functions include, but are not limited to, the following:

1. Designs, configures, and implements network hardware and software.

2. Monitors network performance and makes modifications.

3. Develops networks and criteria for network monitoring software.
4. Investigates, troubleshoots, and resolves network operating problems.

Minimum Qualifications

These minimum qualifications have been agreed upon by Subject Matter Experts (SMEs) in this job class and are based upon a job analysis and the essential functions. However, if a candidate believes he/she is qualified for the job although he/she does not have the minimum qualifications set forth below, he/she may request special consideration through substitution of related education and experience, demonstrating the ability to perform the essential functions of the position. Any request to substitute related education or experience for minimum qualifications must be addressed to the State Personnel Board in writing, identifying the related education and experience which demonstrates the candidate's ability to perform all essential functions of the position.

Physical Requirements: These physical requirements are not exhaustive, and additional job related physical requirements may be added to these by individual agencies on an as needed basis. Corrective devices may be used to meet physical requirements.

> **Moderate Work:** May frequently exert force equivalent to lifting up to approximately 25 pounds and/or occasionally exert force equivalent to lifting up to approximately 50 pounds.

> **Vision:** Requires the ability to perceive the nature of objects by the eye.

>> **Near Acuity:** Clarity of vision at 20 inches or less.
>> **Midrange:** Clarity of vision at distances of more than 20 inches and less than 20 feet.
>> **Far Acuity:** Clarity of vision at 20 feet or more.
>> **Depth Perception:** Three-dimensional vision. Ability to judge distance and space relationships so as to see objects where and as they actually are.
>> **Accommodation:** Ability to adjust focus.

> **Speaking/Hearing:** Ability to give and receive information through speaking and listening skills.

> **Motor Coordination:**
> While performing the duties of this job, the incumbent is regularly required to sit; use hands to finger, handle or feel objects, tools or controls; and reach with hands and arms. The incumbent is frequently required to stand; and walk. The incumbent is occasionally required to climb or balance; and stoop, kneel, crouch, or bend.

Experience/Educational Requirements:

> **Education:**
> A Bachelor's Degree from an accredited four-year college or university in computer science, data processing, business information systems, communications, or a related field;

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AND

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> **Experience:**
> Four (4) years of directly related experience.

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OR

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> **Education:**
> An Associate's Degree in Applied Science in Technical Program in an area of Information Technology approved by the IT Professional Development Committee;

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AND

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> **Experience:**
> Four (4) years of directly related experience.

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OR

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> **Education:**

An Associate's Degree from an accredited two-year college in computer science, data processing, business information systems, communications, or a related field;

AND

Experience:
Six (6) years of directly related experience.

OR

Education:
Graduation from a standard four-year high school or equivalent (GED);

AND

Experience:
Eight (8) years of directly related experience.

Substitution Statement

Related education and directly related experience may be substituted on an equal basis.

Possession of an Institute for Certification of Computer Professionals (ICCP) Certificate based on successful completion of an examination may be substituted for one (1) year of the required experience (certificate must be attached).

Interview Requirements

Any candidate who is called to an agency for an interview must notify the interviewing agency in writing of any reasonable accommodations needed prior to the date of the interview.